Applicant

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<u>CLAIMS</u>

1. through 24. (Cancelled)

25. (Original) A method of manufacturing a thermoforming mold comprising:

forming a cavity is a mold media, the cavity corresponding in shape to the thermoforming mold;

positioning a vacuum chamber in the cavity;

supplying a molten material to the cavity to cast the mold about the vacuum chamber, the molten material conforming to the cavity and defining a mold face; and

forming at least one hole in the mold extending from the mold face to the vacuum chamber to provide communication between the vacuum chamber and the mold face.

- 26. (Original) The method of claim 25 wherein the mold face includes a plurality of ridges and valleys, and wherein the vacuum chamber is a vacuum line network, the vacuum line network being positioned substantially coincidentally with the valleys.
- 27. (Original) The method of claim 25 wherein the vacuum chamber and vacuum holes define the only voids in the mold.
- 28. (Original) The method of claim 25 wherein the mold is of varying thickness and wherein the vacuum chamber is a vacuum line network, the vacuum line network extending through the mold in areas of lesser thickness.
- 29. (Original) The method of claim 25 wherein the vacuum chamber is a vacuum line network, the vacuum line network being laid out in a grid pattern within the mold.
 - 30. (Original) A process for manufacturing a vacuum mold comprising:

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impressing into a mold media a mold cavity corresponding in shape to a desired shape of the mold;

suspending a vacuum chamber in the mold cavity, the vacuum chamber having an attachment means for operatively connecting the mold cavity to a vacuum supply means;

supplying a molten material to the mold cavity, the molten material filling at least a portion of the mold cavity and surrounding at least a portion of the vacuum chamber;

curing the molten material to define the mold at least partially surrounding the ... vacuum chamber, the mold defining a contoured face to shape a thermoformable sheet; and

defining a plurality of holes in the mold to create fluid communication between the vacuum chamber and the face.

- 31. (Original) The process of claim 30 wherein the vacuum chamber is a vacuum line network.
- 32. (Original) The process of claim 30 wherein the vacuum chamber is a vacuum cabinet.